

Models:

RT-MA-005 – Asphalt Indentation Penetrometer

Accessories:

RT-MA-005/zP1 – Spare Cylindrical Indenter Pin with 100 mm² flat base

RT-MA-005/zP2 – Spare Cylindrical Indenter Pin with 500 mm² flat base

RT-MA-005/zCM – Cube Mould 70.7 mm

RT-MA-005/zPM – Penetration Adjustable Test Mould 69 mm

RT-MA-005/zC – Calibration Block

Standards:

EN 12697-20, EN 13108-6

Description:

RT-MA-005 is an asphalt indentation penetrometer that fully complies with EN 12697-20 and used for testing mastic asphalt, SMA and rolled asphalt. The device comprises a testing frame incorporating a high precision stainless steel water bath with circulating unit to control the specimen temperature during the test. The water bath is made of stainless steel and equipped with drain facility for easy water discharge at the end of the test.

The weight applying system, allowing in a very user-friendly and precise method to pass from unload to preload phase, then to load phase without the need to manual add or remove weights.

The RT-MA-005 design based on ultimate rigged frame structure that guarantees a precise weight positioning, and the user-friendly piston position indicator makes easy the adaptation of the device to different sample heights (70 mm cubes and Marshall specimens).

The asphalt indentation penetrometer supplied complete with high precision digital water bath, digital dial indicator 25 x 0.01 mm with holder on base plate according to EN 12697-20, calibration block, interchangeable cylindrical indenter pins with a circular flat-ended base 100 mm² and 500 mm², cube mould 70.7 mm, penetration adjustable test mould 69 mm.

**Technical specifications:**

Preliminary applied force	25 ± 1 N
Total test force	525 ± 1 N
Diameter of 100 mm ² indenter pin	11.3 ± 0.1 mm
Diameter of 500 mm ² indenter pin	25.2 ± 0.1 mm
Indenter pin length	≥ 20 mm
Deflection of apparatus upon application of force	< 0.01 mm
Water bath capacity	15 L
Water bath temperature range: ambient (5 °C) to	60 °C
Resolution	0.1 °C
Accuracy in the range of 15-40 °C	± 0.2 °C
Dimensions (LxWxH)	400x500x860 mm
Weight (approx.)	80 kg
Power supply	220-230 V, 50 Hz, 1 Ph